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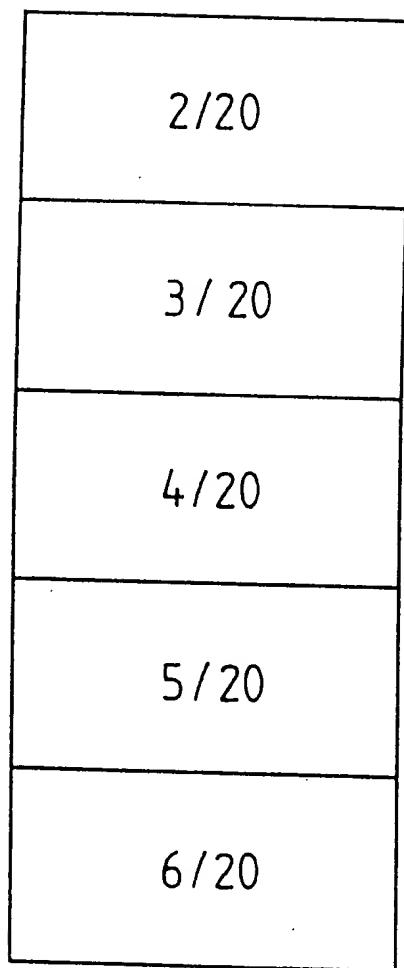


FIG 1

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FIG 1

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CCT	AGA	AAT	CCA	AAG	GCT	TGT	ACC	TTA	AAC	TGT	GAT	CCA	AGA	ATT	GCC	
Pro	Arg	Asn	Pro	Lys	Ala	Cys	Thr	[Leu	Asn]	Cys	Asp	Pro	Arg	Ile	Ala	
55								65							70	
TAT	GGA	GTT	TGC	CCG	CGT	TCA	GAA	GAA	AAG	AAT	GAT	CGG	ATA	TGC	354	
Tyr	Gly	Val	Cys	Pro	Arg	Ser	Glu	Glu	Lys	Lys	Asn	Asp	Arg	Ile	Cys	
								80							85	
ACC	AAC	TGT	TGC	GCA	GGC	ACG	AAG	GGT	TGT	AAG	TAC	TTC	AGT	GAT	402	
Thr	Asn	Cys	Cys	Ala	Gly	Thr	Lys	Gly	Cys	Lys	Tyr	Phe	Ser	Asp	Asp	
								95							100	
GGA	ACT	TTT	GTT	TGT	GAA	GGA	GAG	TCT	GAT	CCT	AGA	AAT	CCA	AAG	GCT	450
Gly	Thr	Phe	Val	Cys	Glu	Gly	Glu	Ser	Asp	Pro	Arg	Asn	Pro	Lys	Ala	
								110							115	
TGT	CCT	CGG	AAT	TGC	GAT	CCA	AGA	ATT	GCC	TAT	GGG	ATT	TGC	CCA	CTT	498
Cys	Pro	Arg	Asn	Cys	Asp	Pro	Arg	Ile	Ala	Tyr	Gly	Ile	Cys	Pro	Leu	
								125							130	
GCA	CAA	GAA	AAG	AAG	AAT	GAT	CGG	ATA	TGC	ACC	AAC	TGT	TGC	CCA	GGC	546
Ala	Glu	Glu	Lys	Lys	Asn	Asp	Arg	Ile	Cys	Thr	Asn	Cys	Cys	Ala	Gly	
								140							145	

FIG 1

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AAA AAG GGT TGT PAG TAC TTT AGT GAT GAT GGA ACT TTT GTT TGT GAA  
Lys Lys GLY Cys Lys Tyr Phe Ser Asp Asp Gly Thr Phe Val Cys Glu  
155 160 165

GGA GAG TCT GAT CCT AAA AAT CCA AAG GCC TGT CCT CGG AAT TGT GAT  
GLY Glu Ser ASP Pro Lys Asn Pro Lys Ala Cys Pro Arg Asn Cys ASP  
170 175 180

GGA AGA ATT GCC TAT GGG ATT TGC CCA CTT TCA GAA GAA AAG AAT  
GLY Arg Ile Ala Tyr GLY Ile Cys Pro Leu Ser Glu Glu Lys Lys Asn  
185 190 195

CAT CGG ATA TGC ACC AAC TGC TGC CCA GGC AAA AAG GGT TGT AAG TAC  
Asp Arg Ile Cys Thr Asn Cys Cys Ala GLY Lys GLY Lys GLY Cys Lys TYR  
200 205 210

TTT AGT GAT GGA ACT TTT GTT TGT GAA GGA GAG TCT GAT CCT PAA  
Phe Ser Asp Asp GLY Thr Phe Val Cys Glu Gly Ser Asp Pro LYS  
215 220 225 230

AAT CCA AAG GCT TGT CCT CGG AAT TGT GAT GGA AGA ATT GCC TAT GGG  
Asn Pro Lys Ala Cys Pro Arg Asn Cys Asp Gly Arg Ile Ala Tyr GLY  
235 240 245

FIG 1

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ATT	TGC	CCA	CTT	TCA	GAA	AAG	AAT	GAT	CGG	ATA	TGC	ACA	AAC
Ile	Cys	Pro	Leu	Ser	Glu	Lys	Lys	Asn	Arg	Ile	Cys	Thr	Asn
<hr/>													
													882
													250
													255
													260

TGT	TGC	GCA	GGC	AAA	AAC	GGC	TGT	AAG	TAC	TTT	AGT	GAT	GGA	ACT	
CYS	CYS	Ala	GLY	LYS	LYS	GLY	CYS	LYS	Tyr	Phe	Ser	Asp	Asp	Gly	Thr
<hr/>															
														930	
														265	
														270	

TTT	GTT	TGT	GAA	CGA	GAG	TCT	GAT	CCT	AGA	AAT	CCA	AAG	GCC	TGT	CCT	
Phe	Val	CYS	Val	CYS	GLY	GLY	Ser	Asp	Pro	Arg	Asn	Pro	LYS	Ala	CYS	Pro
<hr/>																
															978	
															280	
															285	
															290	

CGG	AAT	TGT	GAT	GGA	AGA	ATT	GCC	TAT	GGA	ATT	TGC	CCA	CTT	TCA	GAA
<u>Arg</u>	<u>Asn</u>	CYS	Asp	Gly	Arg	Ile	Ala	Tyr	Gly	Ile	CYS	Pro	Leu	Ser	Glu
<hr/>															
															1026
															295
															300
															305

GAA	AAG	AAT	GAT	CGG	ATA	TGC	ACC	AAT	TGT	TGC	GCA	GGC	AAG	AAG	
Glu	Lys	lys	Asn	Asp	Arg	Ile	CYS	Thr	Asn	CYS	Ala	CYS	Ala	Gly	LYS
<hr/>															
															1074
															315
															320
															325

GGC	TGT	AAG	TAC	TTT	AGT	GAT	GGA	ACT	TTT	ATT	TGT	GAA	GGG	GAA	
Gly	CYS	Lys	Tyr	Phe	Ser	Asp	Asp	Gly	Thr	Phe	Ile	CYS	Glu	Glu	
<hr/>															
															1122
															330
															340

FIG 1

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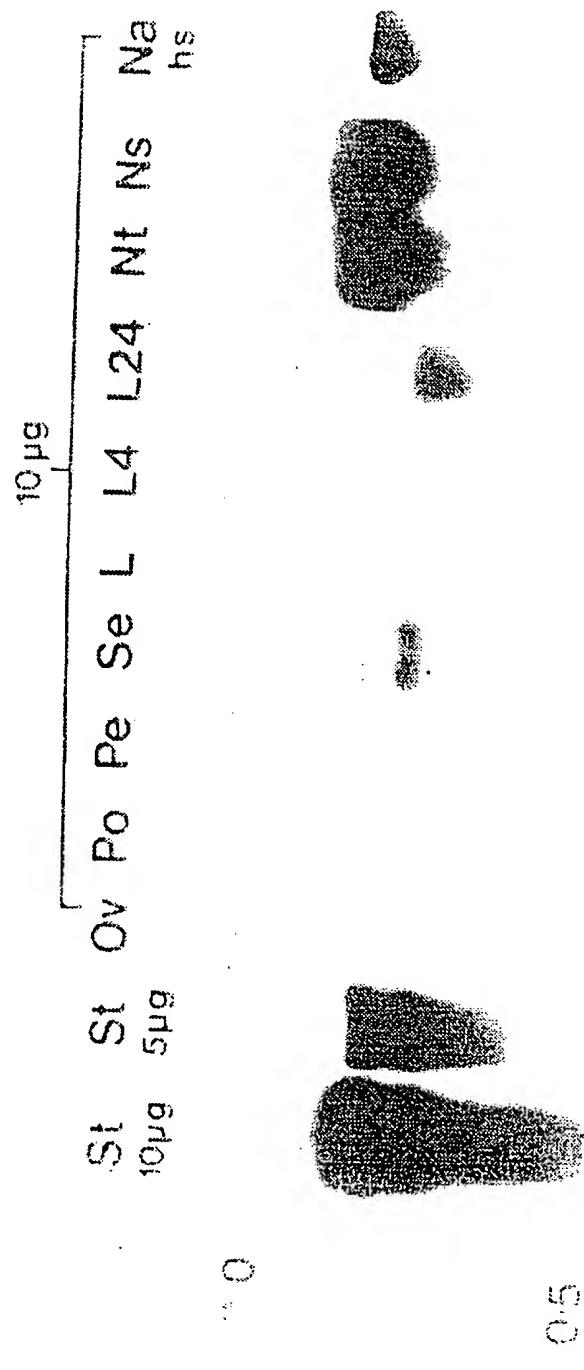
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Ser Glu Tyr Ala Ser Lys Val Asp Glu Tyr Val Gly Glu Val Glu Asn  
345 350 355 1170

GAT CTC CAG AAG TCT AAG GTT GCT GTC TCC TAAGTCCTAA CTAAATAATAT  
Asp Leu Gln Lys Ser Lys Val Ala Val Ser  
360 365 1220

GTAGTCTATG TATGAAACAA AGGCATGCCA ATATGGCTCTG TCTTGCCCTGT AATCTGTAAT  
ATGGTAGTGG AGCTTTCCA CTGGCCTGTT AATAAGAAAT GGAGGCACTAG TTTGTTTAG  
TTAAAAAAA AAAAAAAA 1340  
1360 1280

FIG 1

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FIG 2

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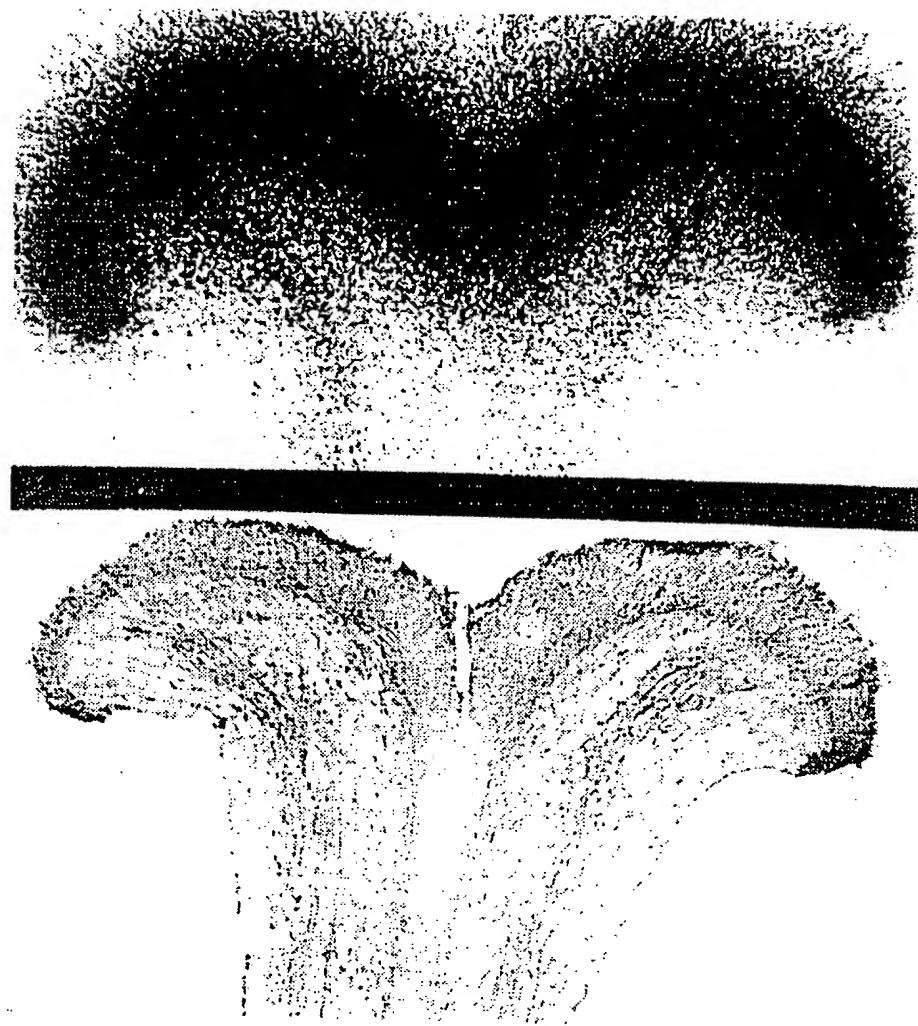


FIG 3

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EcoRI HindIII

9.4

6.5

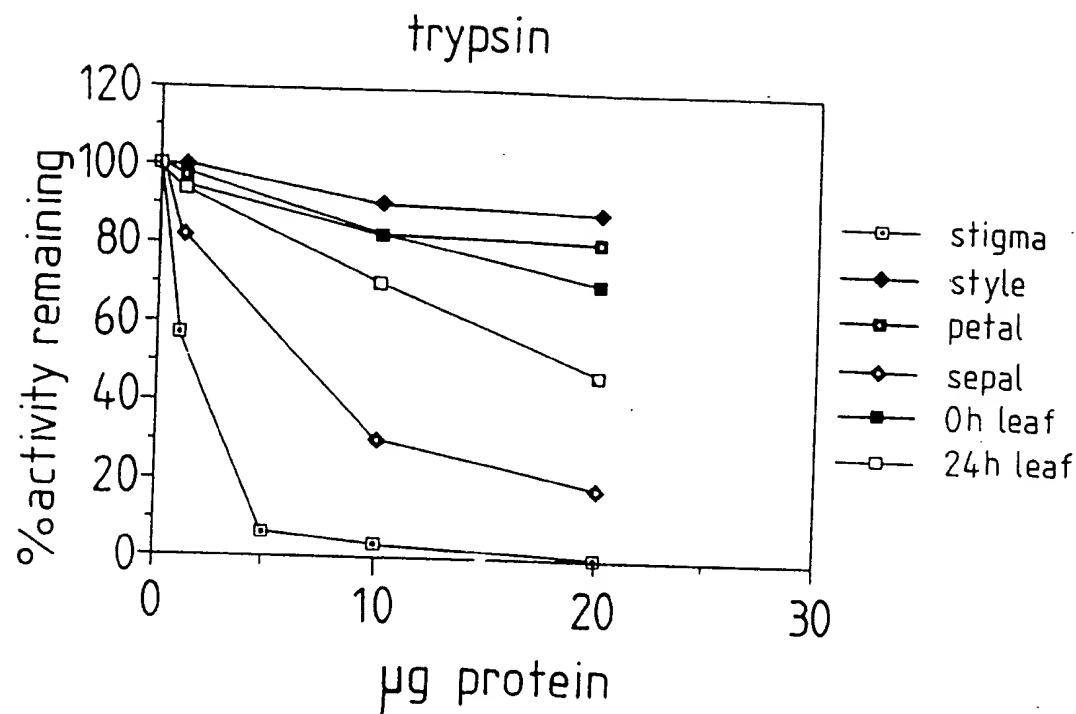
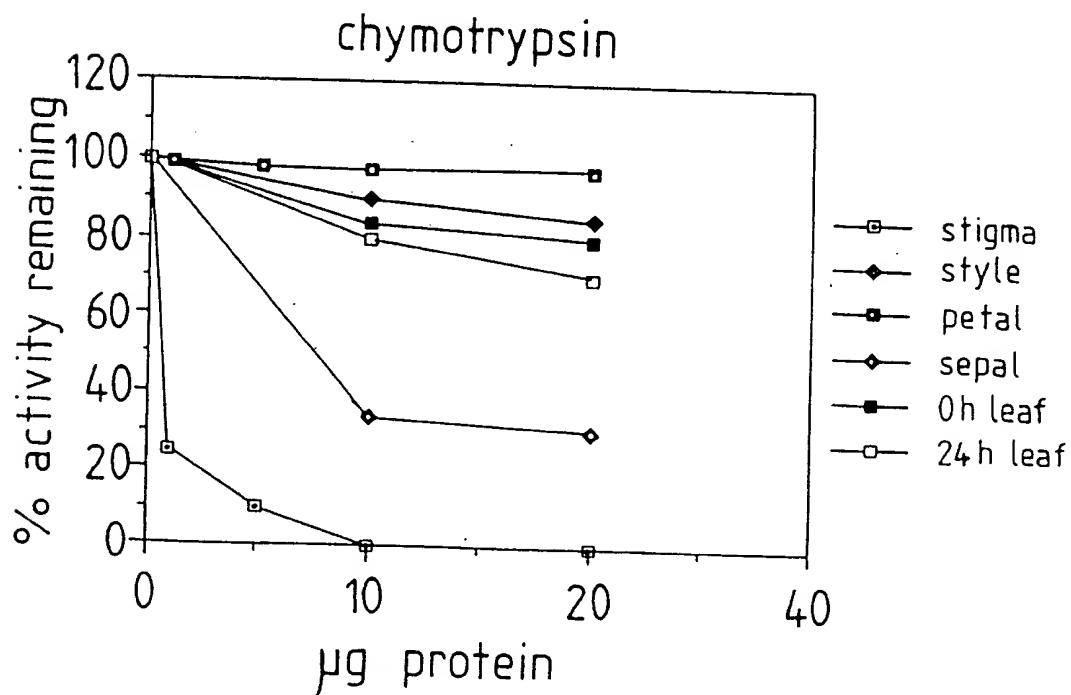
4.3

2.3

2.0

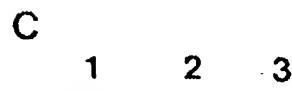
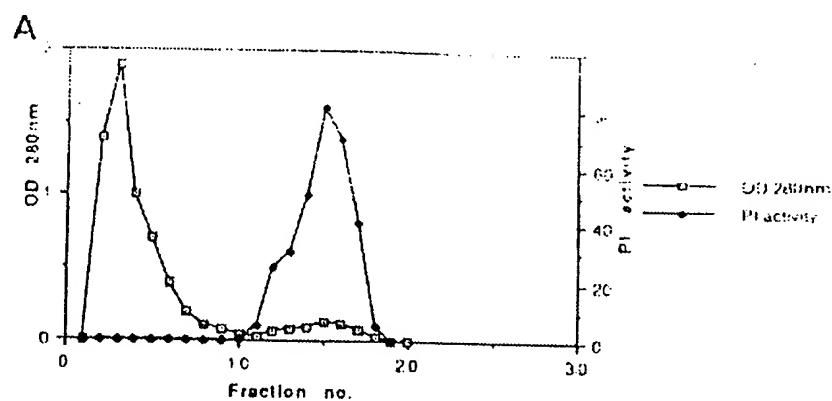
FIG 4

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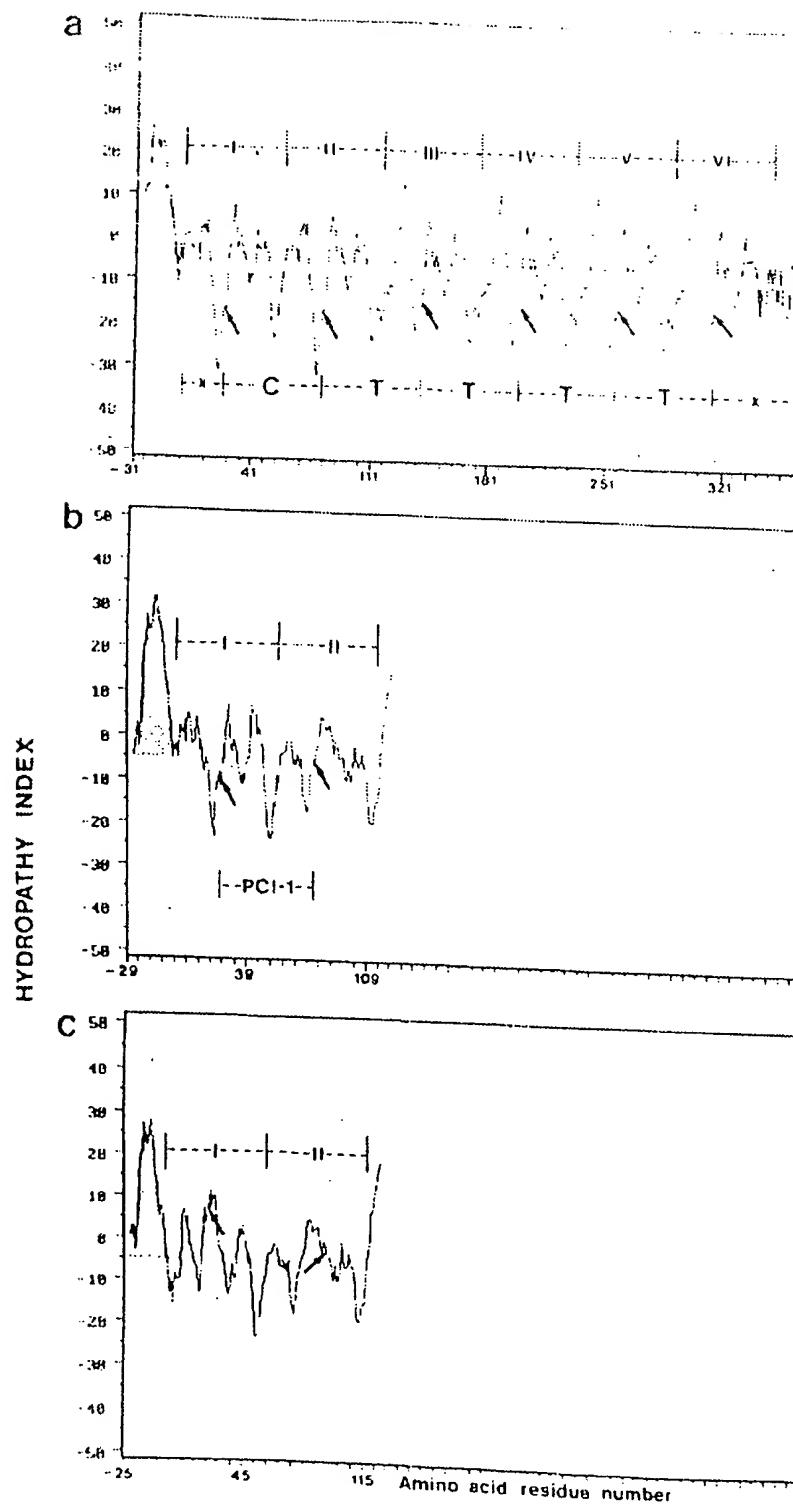
FIGURE 5AFIGURE 5B

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FIG 6



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FIG 7

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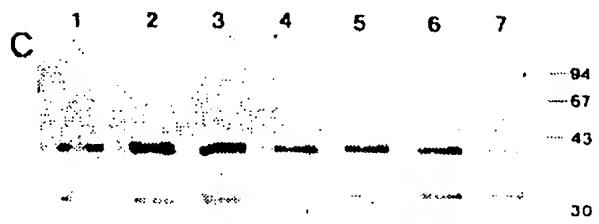
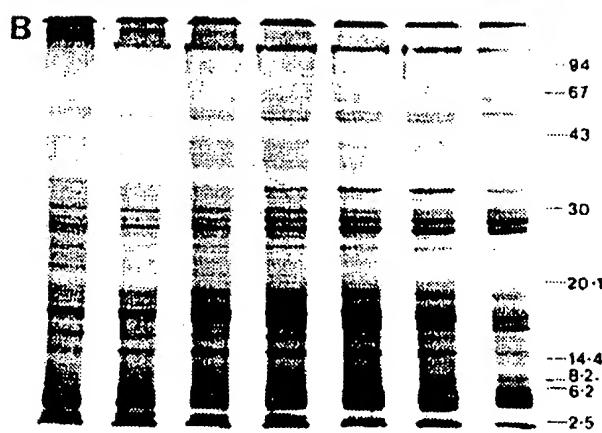
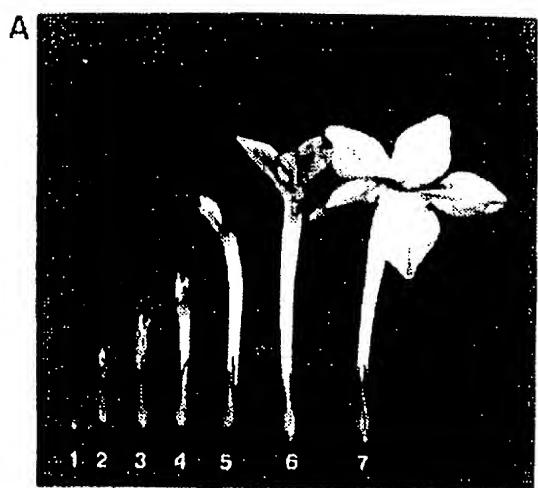
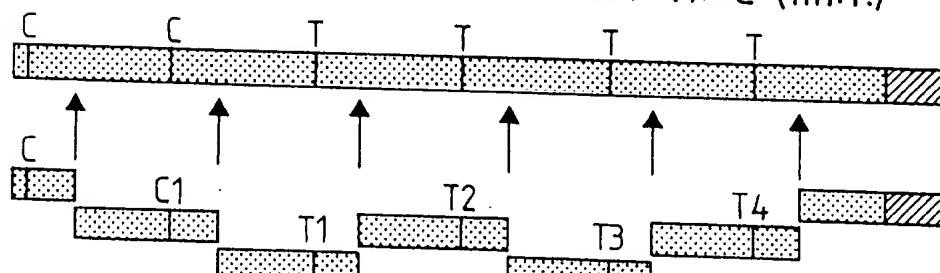
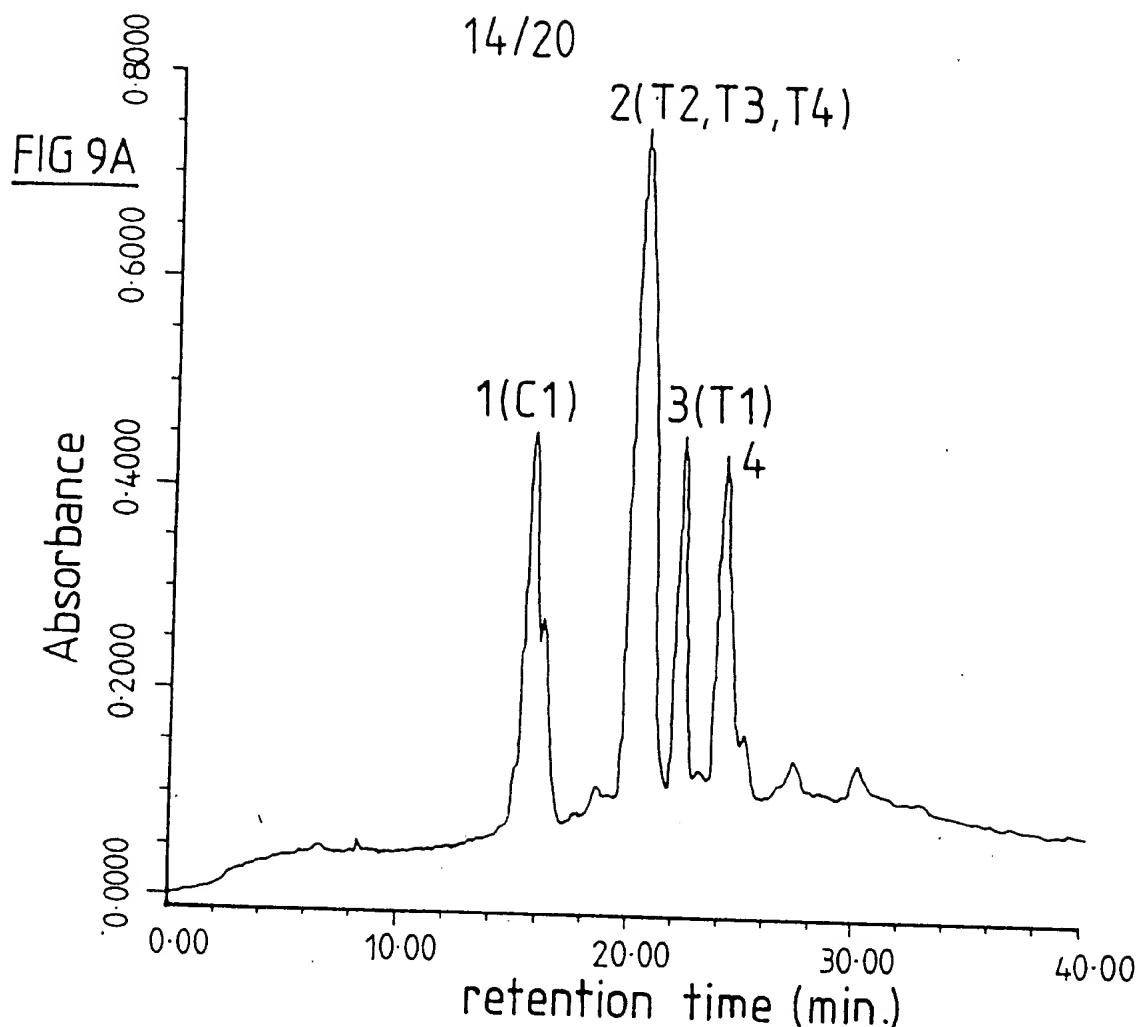
14.4  
8.2  
6.2  
2.5

FIG 8

FIG 9B

C1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACTLNCDPRIAYGVCPRS  
 T1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPRIAYGICPL  
 T2 DRICTNCCAGKGCKYFSDDGTFVCEGESDPKNPKACPRNCDGRIAYGICPLS  
 T3 DRICTNCCAGKGCKYFSDDGTFVCEGESDPKNPKACPRNCDGRIAYGICPLS  
 T4 DRICTNCCAGKGCKYFSDDGTFVCEGESDPRNPKACPRNCDGRIAYGICPLS

1 10 20 30 40 50

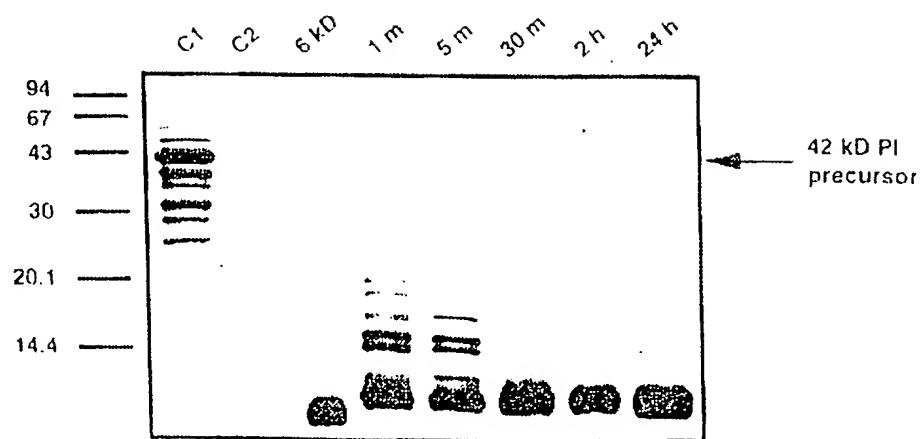
FIGURE 9C

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FIGURE 10

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FIG 11AFIG 11B

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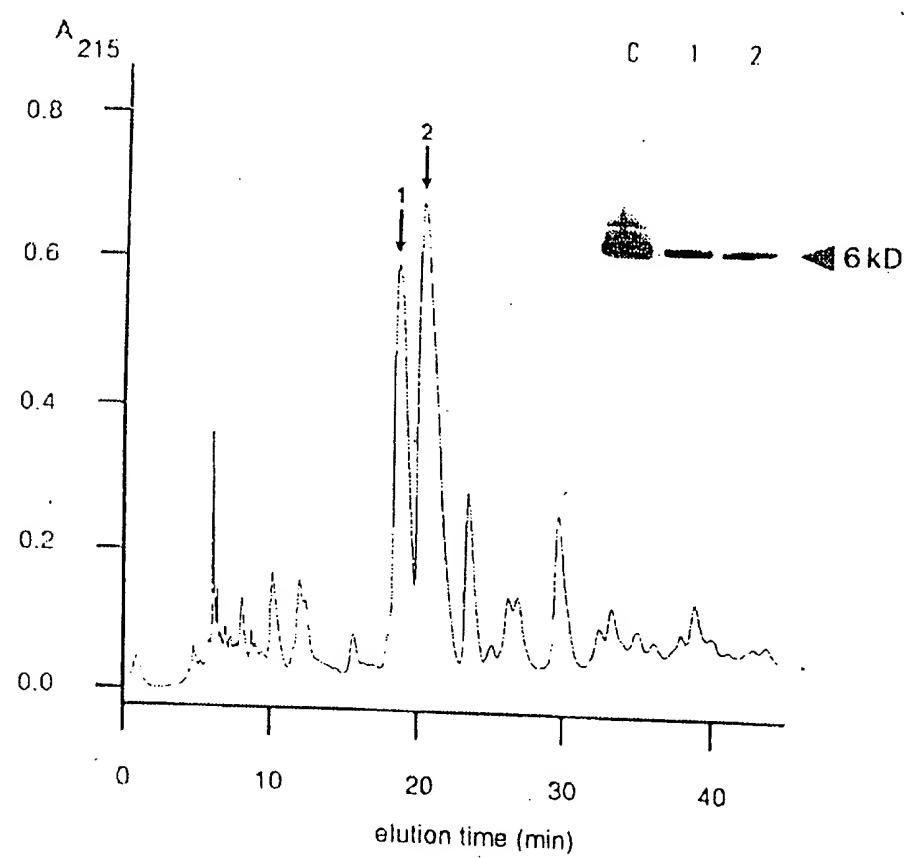
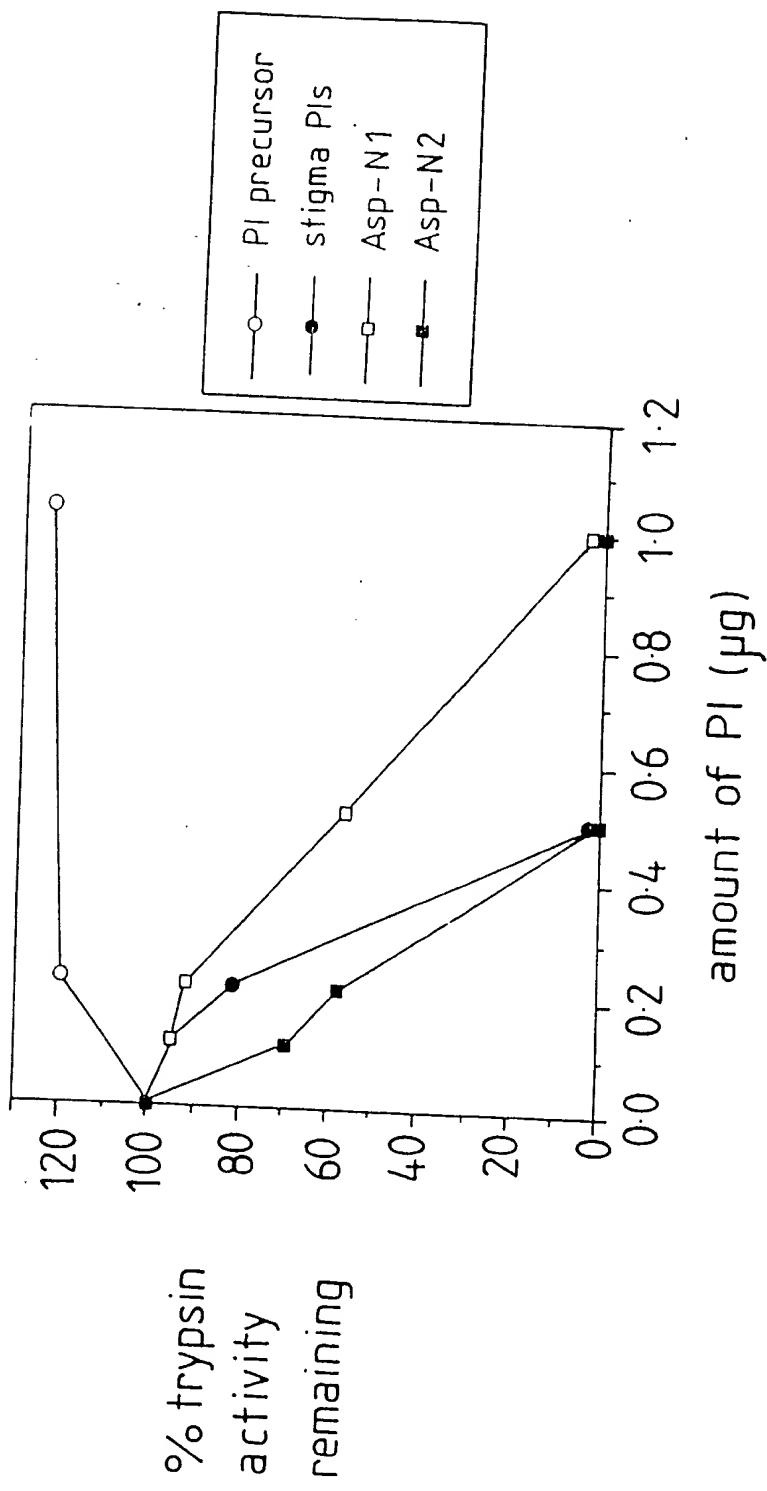
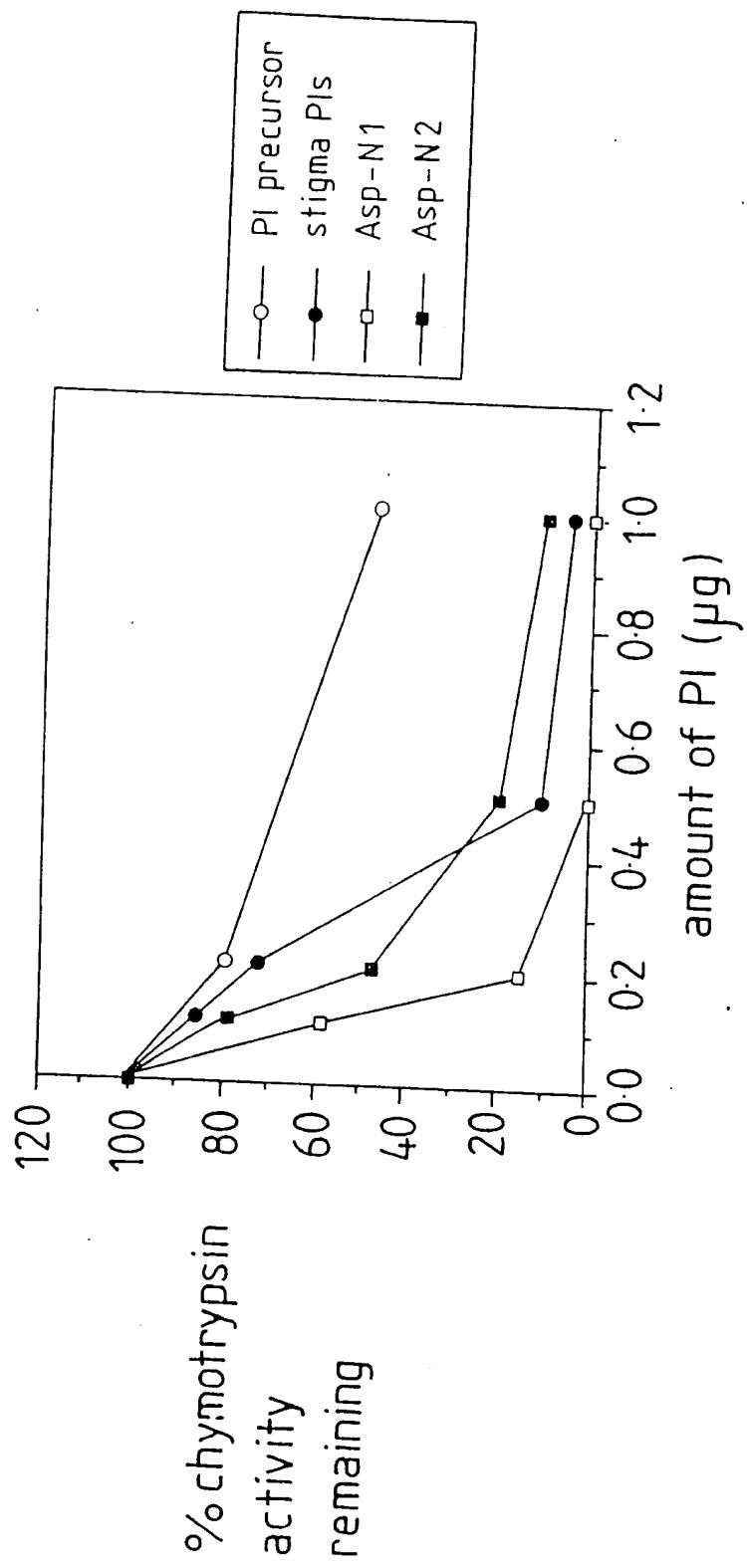


FIG 12

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FIGURE 13A

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FIGURE 13B

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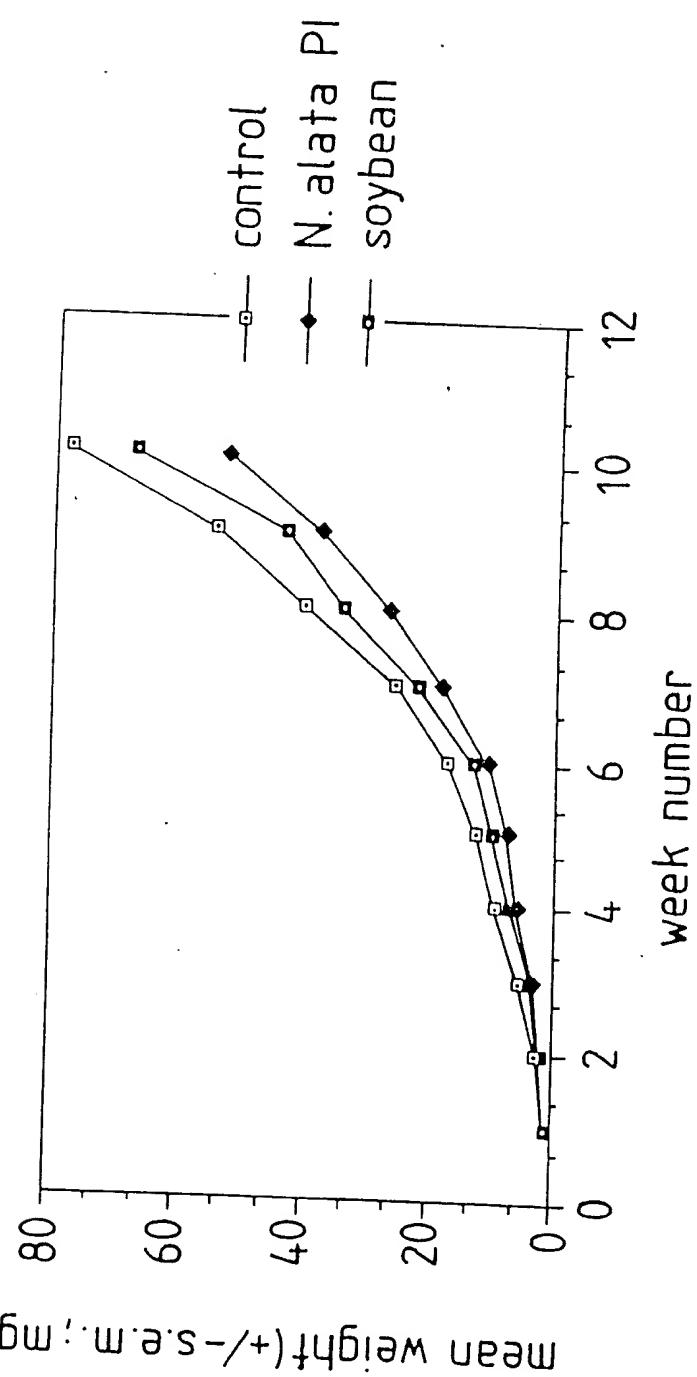


FIGURE 14